

WEST Search History

DATE: Thursday, January 13, 2005

Hide?	<u>Set</u> <u>Name</u>	<u>Query</u>	<u>Hit</u> <u>Count</u>
	<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L60	L59 and ((estimat\$4 or guess\$4) with (map\$4 or plot\$4 or field or error or shift\$4))	13
<input type="checkbox"/>	L59	L58 and (error or difference or change or variation or shift or amount or estimat\$4 or guess\$4)	60
<input type="checkbox"/>	L58	L57 and (((first or second or third or multiple or plurality or "more than one") with (((echo or wait\$4 or repeat or repetition) with time) or "te" or "tr" or "WT")))	60
<input type="checkbox"/>	L57	L56 and l1	217
<input type="checkbox"/>	L56	fetzner	242
<input type="checkbox"/>	L55	L54 and (heid.in.)	11
<input type="checkbox"/>	L54	vargas	1866
<input type="checkbox"/>	L53	L25 and (heid.in.)	2
<input type="checkbox"/>	L52	L27 and (heid.in.)	0
<input type="checkbox"/>	L51	L30 and (heid.in.)	0
<input type="checkbox"/>	L50	L49 and l47	18
<input type="checkbox"/>	L49	(324/300-322.ccls.)	8026
<input type="checkbox"/>	L48	L47 and (inhomogeneity or inhomogenous or nonuniformit\$4 or non-uniformit\$4 or "non uniformit\$4")	24
<input type="checkbox"/>	L47	L46 and ((estimat\$4 or guess\$4) with (map\$4 or plot\$4 or field or error or shift\$4))	123
<input type="checkbox"/>	L46	L45 and (correct\$4 or compensat\$4 or fix\$3)	313
<input type="checkbox"/>	L45	L44 and (imag\$4)	327
<input type="checkbox"/>	L44	L43 and (ghost\$3 or blur\$4 or alias\$3 or perturbat\$4 or artifact or artefact)	353
<input type="checkbox"/>	L43	L42 and (kspace and k-space and "k space" or "ky" or "ky" or "kz" or raw)	1033
<input type="checkbox"/>	L42	L41 and (frequency or RF or Larmor or Larmour)	4929
<input type="checkbox"/>	L41	L40 and (error or difference or change or variation or shift or amount or estimat\$4 or guess\$4)	13207
<input type="checkbox"/>	L40	L39 and (species or hydrogen or water or proton or fat\$2 or lipid\$4 or substance or substance or specimen or tissue)	13302
<input type="checkbox"/>	L39	L38 and (spurious or non-resonant or chemical or shift\$4 or j-coupl\$4 or jcoupl\$4 or ((off with resonan\$3) or off-resonan\$3))	13834
<input type="checkbox"/>	L38	L37 and (((first or second or third or multiple or plurality or "more than one") with (((echo or wait\$4 or repeat or repetition) with time) or "te" or "tr" or "WT")))	17106

<input type="checkbox"/>	L37	L36 and (first or second or third or multiple or plurality or "more than one")	114742
<input type="checkbox"/>	L36	l1 and (((echo or wait\$4 or repeat or repetition) with time) or "te" or "tr" or "WT")	136948
<input type="checkbox"/>	L35	(5192909 5604435 5892358)! [pn]	6
<input type="checkbox"/>	L34	L33 and l1	1
<input type="checkbox"/>	L33	(center\$4 with spiral).ti.	284
<input type="checkbox"/>	L32	L31 and ((estimat\$4) with (map\$4 or plot\$4 or field))	4
<input type="checkbox"/>	L31	L30 and (spiral\$2 or non-linear or nonlinear or archimed\$4 or interleav\$4)	32
		<i>DB=PGPB,USPT; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L30	l27	47
		<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L29	l1 and (pauley.in.)	2
<input type="checkbox"/>	L28	L27 and (kspace and k-space and "k space" or "ky" or "ky" or "kz" or raw)	12
<input type="checkbox"/>	L27	L1 and (pauly.in.)	85
<input type="checkbox"/>	L26	L16 and (pauly.in.)	8
<input type="checkbox"/>	L25	L16 and ((spiral\$2 or non-linear or nonlinear or archimed\$4) with (kspace and k-space and "k space" or "ky" or "ky" or "kz" or raw))	39
<input type="checkbox"/>	L24	L20 and ((spiral\$2 or non-linear or nonlinear or archimed\$4) with (kspace and k-space and "k space" or "ky" or "ky" or "kz" or raw))	3
<input type="checkbox"/>	L23	L22 and ((estimat\$4) with (map\$4 or plot\$4 or field))	29
<input type="checkbox"/>	L22	L21 and (estimat\$4)	101
<input type="checkbox"/>	L21	L20 and (chemical\$3 or species or hydrogen or water or proton or fat\$2 or lipid\$4 or substence or substance or specimen or tissue)	140
<input type="checkbox"/>	L20	L19 and (spurious or non-resonant or (chemical with shift\$4) or ((off with resonan\$3) or off-resonan\$3))	146
<input type="checkbox"/>	L19	L18 and (frequency or RF or Larmor or Larmour)	758
<input type="checkbox"/>	L18	L17 and (((echo or wait\$3) with time) or ("TE" or "WT" or "ET"))	1005
<input type="checkbox"/>	L17	L16 and (map\$4 or plot\$4)	1033
<input type="checkbox"/>	L16	L15 and (kspace and k-space and "k space" or "ky" or "ky" or "kz" or raw)	1744
<input type="checkbox"/>	L15	L1 and (spiral\$2 or non-linear or nonlinear or archimed\$4)	12240
<input type="checkbox"/>	L14	L13 and (ghost\$3 or blur\$4 or alias\$3 or perturbat\$4 or artifact or artefact)	10
<input type="checkbox"/>	L13	L11 and (map\$4 or plot\$4)	16
<input type="checkbox"/>	L12	L11 and (map\$4 or plat\$4)	12
<input type="checkbox"/>	L11	L10 and (kspace and k-space and "k space" or "ky" or "ky" or "kz" or raw)	23
<input type="checkbox"/>	L10	L2 and (spiral or archimed\$4)	94
<input type="checkbox"/>	L9	L8 and (estimat\$4)	8
<input type="checkbox"/>	L8	L7 and (((echo or wait) with time) or ("TE" or "WT" or "ET"))	14
<input type="checkbox"/>	L7	L6 and (kspace and k-space and "k space" or "ky" or "ky" or "kz" or raw)	14
<input type="checkbox"/>	L6	L5 and (inhomogeneity or inhomogenous or nonuniformit\$4 or non-uniformit\$4 or "non uniformit\$4")	30

<input type="checkbox"/>	L5	L4 and (chemical\$3 or species or hydrogen or water or proton or fat\$2 or lipid\$4)	50
<input type="checkbox"/>	L4	L3 and (map\$4)	58
<input type="checkbox"/>	L3	L2 and (ghost\$3 or blur\$4 or alias\$3 or perturbat\$4)	189
<input type="checkbox"/>	L2	L1 and ((off with resonan\$3) or off-resonan\$3)	1059
<input type="checkbox"/>	L1	((magnetic adj resonance) or MRI or NMR)	194971

END OF SEARCH HISTORY

Hit List

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs
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Search Results - Record(s) 1 through 14 of 14 returned.

☐ 1. Document ID: US 20040260173 A1

Using default format because multiple data bases are involved.

L8: Entry 1 of 14

File: PGPB

Dec 23, 2004

PGPUB-DOCUMENT-NUMBER: 20040260173

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040260173 A1

TITLE: Optimized high-speed magnetic resonance imaging method and system using hyperpolarized noble gases

PUBLICATION-DATE: December 23, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Salerno, Michael	Palo Alto	CA	US	
Mugler III, John P.	Charlottesville	VA	US	
Brookeman, James R.	Charlottesville	VA	US	

US-CL-CURRENT: 600/420

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	PMC	Drawings
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☐ 2. Document ID: US 20040227512 A1

L8: Entry 2 of 14

File: PGPB

Nov 18, 2004

PGPUB-DOCUMENT-NUMBER: 20040227512

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040227512 A1

TITLE: Systems and methods for estimating properties of a sample

PUBLICATION-DATE: November 18, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Twieg, Donald Baker	Birmingham	AL	US	

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. D
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☐ 3. Document ID: US 20040059213 A1

L8: Entry 3 of 14

File: PGPB

Mar 25, 2004

PGPUB-DOCUMENT-NUMBER: 20040059213
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040059213 A1

TITLE: MR imaging providing tissue/blood contrast image

PUBLICATION-DATE: March 25, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kassai, Yoshimori	Nasu-Gun		JP	
Miyazaki, Mitsue	Otawara-Shi		JP	
Sugiura, Satoshi	Otawara-Shi		JP	

US-CL-CURRENT: 600/410

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. D
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☐ 4. Document ID: US 20030160610 A1

L8: Entry 4 of 14

File: PGPB

Aug 28, 2003

PGPUB-DOCUMENT-NUMBER: 20030160610
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030160610 A1

TITLE: Methods for assessing amide proton content and properties in vivo via the water resonance

PUBLICATION-DATE: August 28, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Van Zijl, Peter C. M.	Ellicott City	MD	US	
Zhou, Jinyuan	Baltimore	MD	US	

US-CL-CURRENT: 324/300; 514/622

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. D
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☐ 5. Document ID: US 20020188190 A1

L8: Entry 5 of 14

File: PGPB

Dec 12, 2002

PGPUB-DOCUMENT-NUMBER: 20020188190
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020188190 A1

TITLE: MR IMAGING PROVIDING TISSUE/BLOOD CONTRAST IMAGE

PUBLICATION-DATE: December 12, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
KASSAI, YOSHIMORI	NASU-GUN		JP	
MIYAZAKI, MITSUE	OTAWARA-SHI		JP	
SUGIURA, SATOSHI	OTAWARA-SHI		JP	

US-CL-CURRENT: 600/410; 324/307, 324/309, 600/413

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Drawings
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☐ 6. Document ID: US 20020167315 A1

L8: Entry 6 of 14

File: PGPB

Nov 14, 2002

PGPUB-DOCUMENT-NUMBER: 20020167315
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020167315 A1

TITLE: Ghost artifact cancellation using phased array processing

PUBLICATION-DATE: November 14, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kellman, Peter	Bethesda	MD	US	
McVeigh, Elliot R.	Phoenix	MD	US	

US-CL-CURRENT: 324/307; 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Drawings
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☐ 7. Document ID: US 6771067 B2

L8: Entry 7 of 14

File: USPT

Aug 3, 2004

US-PAT-NO: 6771067
DOCUMENT-IDENTIFIER: US 6771067 B2

TITLE: Ghost artifact cancellation using phased array processing

DATE-ISSUED: August 3, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kellman; Peter	Bethesda	MD		
McVeigh; Elliot	Phoenix	MD		

US-CL-CURRENT: 324/307; 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Draw D
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☐ 8. Document ID: US 6188219 B1

L8: Entry 8 of 14

File: USPT

Feb 13, 2001

US-PAT-NO: 6188219

DOCUMENT-IDENTIFIER: US 6188219 B1

**** See image for Certificate of Correction ****TITLE: Magnetic resonance imaging method and apparatus and method of calibrating the same

DATE-ISSUED: February 13, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Reeder; Scott B.	Baltimore	MD		
Atalar; Ergin	Columbia	MD		
Faranesh; Anthony Z.	Baltimore	MD		
McVeigh; Elliot R.	Timonium	MD		

US-CL-CURRENT: 324/307; 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Draw D
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☐ 9. Document ID: US 5926022 A

L8: Entry 9 of 14

File: USPT

Jul 20, 1999

US-PAT-NO: 5926022

DOCUMENT-IDENTIFIER: US 5926022 A

TITLE: Method for flow compensating a multi-shot echo-planar MRI pulse sequence

DATE-ISSUED: July 20, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Slavin; Glenn S.	Rochester	MN		
Riederer; Stephen J.	Rochester	MN		

US-CL-CURRENT: 324/309; 324/300, 324/306, 324/313, 600/412

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw. De
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☐ 10. Document ID: US 5352979 A

L8: Entry 10 of 14

File: USPT

Oct 4, 1994

US-PAT-NO: 5352979

DOCUMENT-IDENTIFIER: US 5352979 A

**** See image for Certificate of Correction ****

TITLE: Magnetic resonance imaging with contrast enhanced phase angle reconstruction

DATE-ISSUED: October 4, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Conturo; Thomas E.	Baltimore	MD	21231	

US-CL-CURRENT: 324/307; 600/410, 600/413, 600/420

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw. De
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☐ 11. Document ID: US 5311132 A

L8: Entry 11 of 14

File: USPT

May 10, 1994

US-PAT-NO: 5311132

DOCUMENT-IDENTIFIER: US 5311132 A

TITLE: Method of enhancing the focus of magnetic resonance images

DATE-ISSUED: May 10, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Noll; Douglas C.	Pittsburgh	PA		
Pauly; John M.	Menlo Park	CA		
Macovski; Albert	Menlo Park	CA		

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw. De
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☐ 12. Document ID: US 5204625 A

L8: Entry 12 of 14

File: USPT

Apr 20, 1993

US-PAT-NO: 5204625

DOCUMENT-IDENTIFIER: US 5204625 A

TITLE: Segmentation of stationary and vascular surfaces in magnetic resonance
imaging

DATE-ISSUED: April 20, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cline; Harvey E.	Schenectady	NY		
Souza; Steven P.	Williamstown	MA		
Lorensen; William E.	Johnsville	NY		
Kennedy; Thomas E.	Whitefish Bay	WI		

US-CL-CURRENT: 324/306; 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KUMC	Draw De
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☐ 13. Document ID: US 5150053 A

L8: Entry 13 of 14

File: USPT

Sep 22, 1992

US-PAT-NO: 5150053

DOCUMENT-IDENTIFIER: US 5150053 A

TITLE: Magnetic resonance imaging of short T.sub.2 species with improved contrast

DATE-ISSUED: September 22, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Pauly; John M.	Menlo Park	CA		
Conolly; Steven M.	Menlo Park	CA		
Nishimura; Dwight G.	Palo Alto	CA		

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KUMC	Draw De
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☐ 14. Document ID: US 5025216 A

L8: Entry 14 of 14

File: USPT

Jun 18, 1991

US-PAT-NO: 5025216

DOCUMENT-IDENTIFIER: US 5025216 A

TITLE: Magnetic resonance imaging of short T.sub.2 species

DATE-ISSUED: June 18, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Pauly; John M.	Menlo Park	CA		
Nishimura; Dwight G.	Palo Alto	CA		

US-CL-CURRENT: [324/309](#); [324/307](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Publ	Draw D
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Term	Documents
ECHO	60466
ECHOES	19017
ECHOS	2751
ECHOE	138
WAIT	128884
WAITS	76197
TIME	6927802
TIMES	2250430
TE	695135
TES	133154
WT	735129
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Display Format: [Change Format](#)

[Previous Page](#)[Next Page](#)[Go to Doc#](#)

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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs
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Search Results - Record(s) 1 through 8 returned.

☐ 1. Document ID: US 20040260173 A1

Using default format because multiple data bases are involved.

L9: Entry 1 of 8

File: PGPB

Dec 23, 2004

PGPUB-DOCUMENT-NUMBER: 20040260173

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040260173 A1

TITLE: Optimized high-speed magnetic resonance imaging method and system using hyperpolarized noble gases

PUBLICATION-DATE: December 23, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Salerno, Michael	Palo Alto	CA	US	
Mugler III, John P.	Charlottesville	VA	US	
Brookeman, James R.	Charlottesville	VA	US	

US-CL-CURRENT: 600/420

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 2. Document ID: US 20040227512 A1

L9: Entry 2 of 8

File: PGPB

Nov 18, 2004

PGPUB-DOCUMENT-NUMBER: 20040227512

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040227512 A1

TITLE: Systems and methods for estimating properties of a sample

PUBLICATION-DATE: November 18, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Twieg, Donald Baker	Birmingham	AL	US	

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 3. Document ID: US 20020167315 A1

L9: Entry 3 of 8

File: PGPB

Nov 14, 2002

PGPUB-DOCUMENT-NUMBER: 20020167315

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020167315 A1

TITLE: Ghost artifact cancellation using phased array processing

PUBLICATION-DATE: November 14, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kellman, Peter	Bethesda	MD	US	
McVeigh, Elliot R.	Phoenix	MD	US	

US-CL-CURRENT: 324/307; 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 4. Document ID: US 6771067 B2

L9: Entry 4 of 8

File: USPT

Aug 3, 2004

US-PAT-NO: 6771067

DOCUMENT-IDENTIFIER: US 6771067 B2

TITLE: Ghost artifact cancellation using phased array processing

DATE-ISSUED: August 3, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kellman; Peter	Bethesda	MD		
McVeigh; Elliot	Phoenix	MD		

US-CL-CURRENT: 324/307; 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 5. Document ID: US 6188219 B1

L9: Entry 5 of 8

File: USPT

Feb 13, 2001

US-PAT-NO: 6188219

DOCUMENT-IDENTIFIER: US 6188219 B1

**** See image for Certificate of Correction ****

TITLE: Magnetic resonance imaging method and apparatus and method of calibrating the same

DATE-ISSUED: February 13, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Reeder; Scott B.	Baltimore	MD		
Atalar; Ergin	Columbia	MD		
Faranesh; Anthony Z.	Baltimore	MD		
McVeigh; Elliot R.	Timonium	MD		

US-CL-CURRENT: 324/307; 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KUMC	Draw. D
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☐ 6. Document ID: US 5352979 A

L9: Entry 6 of 8

File: USPT

Oct 4, 1994

US-PAT-NO: 5352979

DOCUMENT-IDENTIFIER: US 5352979 A

**** See image for Certificate of Correction ****

TITLE: Magnetic resonance imaging with contrast enhanced phase angle reconstruction

DATE-ISSUED: October 4, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Conturo; Thomas E.	Baltimore	MD	21231	

US-CL-CURRENT: 324/307; 600/410, 600/413, 600/420

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KUMC	Draw. D
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☐ 7. Document ID: US 5311132 A

L9: Entry 7 of 8

File: USPT

May 10, 1994

US-PAT-NO: 5311132

DOCUMENT-IDENTIFIER: US 5311132 A

TITLE: Method of enhancing the focus of magnetic resonance images

DATE-ISSUED: May 10, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Noll; Douglas C.	Pittsburgh	PA		
Pauly; John M.	Menlo Park	CA		
Macovski; Albert	Menlo Park	CA		

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference				Claims	KWC	Draw D
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☐ 8. Document ID: US 5204625 A

L9: Entry 8 of 8

File: USPT

Apr 20, 1993

US-PAT-NO: 5204625

DOCUMENT-IDENTIFIER: US 5204625 A

TITLE: Segmentation of stationary and vascular surfaces in magnetic resonance imaging

DATE-ISSUED: April 20, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cline; Harvey E.	Schenectady	NY		
Souza; Steven P.	Williamstown	MA		
Lorensen; William E.	Johnsville	NY		
Kennedy; Thomas E.	Whitefish Bay	WI		

US-CL-CURRENT: 324/306; 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference				Claims	KWC	Draw D
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Term	Documents
ESTIMAT\$4	0
ESTIMAT	227
ESTIMATA	3
ESTIMATABLE	98
ESTIMATATED	4
ESTIMATBDTO	1
ESTIMATBIT	1
ESTIMATC	4
ESTIMATCD	11
ESTIMATCS	1

ESTIMATD	9
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[Previous Page](#)

[Next Page](#)

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Search Results - Record(s) 1 through 10 of 10 returned.

☐ 1. Document ID: US 20040260173 A1

Using default format because multiple data bases are involved.

L14: Entry 1 of 10

File: PGPB

Dec 23, 2004

PGPUB-DOCUMENT-NUMBER: 20040260173

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040260173 A1

TITLE: Optimized high-speed magnetic resonance imaging method and system using hyperpolarized noble gases

PUBLICATION-DATE: December 23, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Salerno, Michael	Palo Alto	CA	US	
Mugler III, John P.	Charlottesville	VA	US	
Brookeman, James R.	Charlottesville	VA	US	

US-CL-CURRENT: 600/420

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	DOC	Draw D
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☐ 2. Document ID: US 20040227512 A1

L14: Entry 2 of 10

File: PGPB

Nov 18, 2004

PGPUB-DOCUMENT-NUMBER: 20040227512

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040227512 A1

TITLE: Systems and methods for estimating properties of a sample

PUBLICATION-DATE: November 18, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Twieg, Donald Baker	Birmingham	AL	US	

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. De
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☐ 3. Document ID: US 20040155654 A1

L14: Entry 3 of 10

File: PGPB

Aug 12, 2004

PGPUB-DOCUMENT-NUMBER: 20040155654
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040155654 A1

TITLE: Moving table MRI with frequency-encoding in the z-direction

PUBLICATION-DATE: August 12, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Brittain, Jean Helen	Menlo Park	CA	US	

US-CL-CURRENT: 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. De
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☐ 4. Document ID: US 20030049867 A1

L14: Entry 4 of 10

File: PGPB

Mar 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030049867
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030049867 A1

TITLE: Methods for parallel detection of compositions having desired characteristics

PUBLICATION-DATE: March 13, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Selifonov, Sergey A.	Plymouth	MN	US	
Huisman, Gjalte W.	San Carlos	CA	US	

US-CL-CURRENT: 436/518; 435/6, 702/19

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. De
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☐ 5. Document ID: US 20030011369 A1

L14: Entry 5 of 10

File: PGPB

Jan 16, 2003

PGPUB-DOCUMENT-NUMBER: 20030011369
PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030011369 A1

TITLE: Moving table MRI with frequency-encoding in the z-direction

PUBLICATION-DATE: January 16, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Brittain, Jean H.	Palo Alto	CA	US	
Pauly, John M.	Redwood City	CA	US	

US-CL-CURRENT: 324/309; 324/307, 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw D
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☐ 6. Document ID: US 20010024796 A1

L14: Entry 6 of 10

File: PGPB

Sep 27, 2001

PGPUB-DOCUMENT-NUMBER: 20010024796

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010024796 A1

TITLE: Methods for parallel detection of compositions having desired characteristics

PUBLICATION-DATE: September 27, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Selifonov, Sergey A.	Gainesville	FL	US	
Huisman, Gjalt W.	San Carlos	CA	US	

US-CL-CURRENT: 435/7.1; 324/308

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw D
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☐ 7. Document ID: US 6794869 B2

L14: Entry 7 of 10

File: USPT

Sep 21, 2004

US-PAT-NO: 6794869

DOCUMENT-IDENTIFIER: US 6794869 B2

TITLE: Moving table MRI with frequency-encoding in the z-direction

DATE-ISSUED: September 21, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
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Brittain; Jean Helen Menlo Park CA

US-CL-CURRENT: 324/309; 324/306, 324/307, 324/318, 600/410, 600/415

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw De
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☐ 8. Document ID: US 5926022 A

L14: Entry 8 of 10

File: USPT

Jul 20, 1999

US-PAT-NO: 5926022

DOCUMENT-IDENTIFIER: US 5926022 A

TITLE: Method for flow compensating a multi-shot echo-planar MRI pulse sequence

DATE-ISSUED: July 20, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Slavin; Glenn S.	Rochester	MN		
Riederer; Stephen J.	Rochester	MN		

US-CL-CURRENT: 324/309; 324/300, 324/306, 324/313, 600/412

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw De
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☐ 9. Document ID: US 5311132 A

L14: Entry 9 of 10

File: USPT

May 10, 1994

US-PAT-NO: 5311132

DOCUMENT-IDENTIFIER: US 5311132 A

TITLE: Method of enhancing the focus of magnetic resonance images

DATE-ISSUED: May 10, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Noll; Douglas C.	Pittsburgh	PA		
Pauly; John M.	Menlo Park	CA		
Macovski; Albert	Menlo Park	CA		

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw De
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☐ 10. Document ID: US 5233991 A

L14: Entry 10 of 10

File: USPT

Aug 10, 1993

US-PAT-NO: 5233991

DOCUMENT-IDENTIFIER: US 5233991 A

**** See image for Certificate of Correction ****TITLE: Method and apparatus for estimating oxygen saturation of blood using
magnetic resonance

DATE-ISSUED: August 10, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wright; Graham A.	Palo Alto	CA		

US-CL-CURRENT: 600/410; 600/419

Full	Title	Creation	Front	Review	Classification	Date	Reference			Claims	KINC	Drawings
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Term	Documents
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ARTIFACTS	32726
ARTEFACT	1432
ARTEFACTS	2764
GHOST\$3	0
GHOST	17402
GHOSTE	1
GHOSTED	928
GHOSTER	3
GHOSTG	4
GHOSTGAP	1
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Search Results - Record(s) 1 through 29 of 29 returned.

☐ 1. Document ID: US 20040260470 A1

Using default format because multiple data bases are involved.

L23: Entry 1 of 29

File: PGPB

Dec 23, 2004

PGPUB-DOCUMENT-NUMBER: 20040260470

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040260470 A1

TITLE: Conveyance scheduling and logistics system

PUBLICATION-DATE: December 23, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Rast, Rodger H.	Gold River	CA	US	

US-CL-CURRENT: 701/300; 705/7

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawings
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☐ 2. Document ID: US 20040260173 A1

L23: Entry 2 of 29

File: PGPB

Dec 23, 2004

PGPUB-DOCUMENT-NUMBER: 20040260173

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040260173 A1

TITLE: Optimized high-speed magnetic resonance imaging method and system using hyperpolarized noble gases

PUBLICATION-DATE: December 23, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Salerno, Michael	Palo Alto	CA	US	
Mugler III, John P.	Charlottesville	VA	US	
Brookeman, James R.	Charlottesville	VA	US	

US-CL-CURRENT: 600/420

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 3. Document ID: US 20040229231 A1

L23: Entry 3 of 29

File: PGPB

Nov 18, 2004

PGPUB-DOCUMENT-NUMBER: 20040229231

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040229231 A1

TITLE: Compositions and methods for inferring ancestry

PUBLICATION-DATE: November 18, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Frudakis, Tony N.	Bradenton	FL	US	
Shriver, Mark D.	Boalsburg	PA	US	

US-CL-CURRENT: 435/6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 4. Document ID: US 20040227512 A1

L23: Entry 4 of 29

File: PGPB

Nov 18, 2004

PGPUB-DOCUMENT-NUMBER: 20040227512

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040227512 A1

TITLE: Systems and methods for estimating properties of a sample

PUBLICATION-DATE: November 18, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Twieg, Donald Baker	Birmingham	AL	US	

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 5. Document ID: US 20040155654 A1

L23: Entry 5 of 29

File: PGPB

Aug 12, 2004

PGPUB-DOCUMENT-NUMBER: 20040155654

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040155654 A1

TITLE: Moving table MRI with frequency-encoding in the z-direction

PUBLICATION-DATE: August 12, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Brittain, Jean Helen	Menlo Park	CA	US	

US-CL-CURRENT: 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMC	Draw D
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☐ 6. Document ID: US 20040063666 A1

L23: Entry 6 of 29

File: PGPB

Apr 1, 2004

PGPUB-DOCUMENT-NUMBER: 20040063666

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040063666 A1

TITLE: Compositions for inhibiting arginase activity

PUBLICATION-DATE: April 1, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Christianson, David	Media	PA	US	
Baggio, Ricky	Waltham	MA	US	
Elbaum, Daniel	Newton	MA	US	

US-CL-CURRENT: 514/64

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMC	Draw D
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☐ 7. Document ID: US 20030229456 A1

L23: Entry 7 of 29

File: PGPB

Dec 11, 2003

PGPUB-DOCUMENT-NUMBER: 20030229456

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030229456 A1

TITLE: Methods for predicting properties of molecules

PUBLICATION-DATE: December 11, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Beger, Richard D.	White Hall	AR	US	
Wilkes, Jon G.	Little Rock	AR	US	

US-CL-CURRENT: 702/27

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. D
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☐ 8. Document ID: US 20030215877 A1

L23: Entry 8 of 29

File: PGPB

Nov 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030215877

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030215877 A1

TITLE: Directed protein docking algorithm

PUBLICATION-DATE: November 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Love, John J.	La Mesa	CA	US	
Mayo, Stephen L.	Pasadena	CA	US	

US-CL-CURRENT: 435/7.1; 435/320.1, 435/325, 435/69.1, 702/19, 703/11

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. D
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☐ 9. Document ID: US 20030093004 A1

L23: Entry 9 of 29

File: PGPB

May 15, 2003

PGPUB-DOCUMENT-NUMBER: 20030093004

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030093004 A1

TITLE: System and method for the tomography of the primary electric current of the brain and of the heart

PUBLICATION-DATE: May 15, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Sosa, Pedro Antonio Valdes			US	
Bosch Bayard, Jorge Francisco			US	
Aubert Vazouez, Eduardo Francisco			US	
Virues Alba, Trinidad			US	
Aguilera, Frank Morales			US	
Trujillo Barreto, Nelson Jesus			US	
Soler McCook, Jorge Miguel			US	
Riera Diaz, Jorge Javier			US	
Montero, Maria Elena Fuentes			US	

US-CL-CURRENT: 600/544

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. D
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☐ 10. Document ID: US 20030036529 A1

L23: Entry 10 of 29

File: PGPB

Feb 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030036529

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030036529 A1

TITLE: Compositions and methods for inhibiting arginase activity

PUBLICATION-DATE: February 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Christianson, David	Media	PA	US	
Baggio, Ricky	Waltham	MA	US	
Elbaum, Daniel	Newton	MA	US	

US-CL-CURRENT: 514/64; 562/7

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. D
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☐ 11. Document ID: US 20030011369 A1

L23: Entry 11 of 29

File: PGPB

Jan 16, 2003

PGPUB-DOCUMENT-NUMBER: 20030011369

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030011369 A1

TITLE: Moving table MRI with frequency-encoding in the z-direction

PUBLICATION-DATE: January 16, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Brittain, Jean H.	Palo Alto	CA	US	
Pauly, John M.	Redwood City	CA	US	

US-CL-CURRENT: 324/309; 324/307, 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. D
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☐ 12. Document ID: US 6794869 B2

L23: Entry 12 of 29

File: USPT

Sep 21, 2004

US-PAT-NO: 6794869

DOCUMENT-IDENTIFIER: US 6794869 B2

TITLE: Moving table MRI with frequency-encoding in the z-direction

DATE-ISSUED: September 21, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Brittain; Jean Helen	Menlo Park	CA		

US-CL-CURRENT: 324/309; 324/306, 324/307, 324/318, 600/410, 600/415

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	WOC	Draw D
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☐ 13. Document ID: US 6723710 B2

L23: Entry 13 of 29

File: USPT

Apr 20, 2004

US-PAT-NO: 6723710

DOCUMENT-IDENTIFIER: US 6723710 B2

TITLE: Compositions for inhibiting arginase activity

DATE-ISSUED: April 20, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Christianson; David	Media	PA		
Baggio; Ricky	Waltham	MA		
Elbaum; Daniel	Newton	MA		

US-CL-CURRENT: 514/64; 562/7

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	WOC	Draw D
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☐ 14. Document ID: US 6575969 B1

L23: Entry 14 of 29

File: USPT

Jun 10, 2003

US-PAT-NO: 6575969

DOCUMENT-IDENTIFIER: US 6575969 B1

TITLE: Cool-tip radiofrequency thermosurgery electrode system for tumor ablation

DATE-ISSUED: June 10, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rittman, III; William J.	Lynnfield	MA		
Cosman; Eric R.	Belmont	MA		

US-CL-CURRENT: 606/41; 128/898, 600/439

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 15. Document ID: US 6566873 B1

L23: Entry 15 of 29

File: USPT

May 20, 2003

US-PAT-NO: 6566873

DOCUMENT-IDENTIFIER: US 6566873 B1

TITLE: Method of and apparatus for nuclear quadrupole resonance testing a sample

DATE-ISSUED: May 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Smith; John Alec Sydney	London			GB
Peirson; Neil Francis	Northampton			GB

US-CL-CURRENT: 324/300; 324/314

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 16. Document ID: US 6387890 B1

L23: Entry 16 of 29

File: USPT

May 14, 2002

US-PAT-NO: 6387890

DOCUMENT-IDENTIFIER: US 6387890 B1

TITLE: Compositions and methods for inhibiting arginase activity

DATE-ISSUED: May 14, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Christianson; David	Media	PA		
Baggio; Ricky	Waltham	MA		
Elbaum; Daniel	Newton	MA		

US-CL-CURRENT: 514/64; 562/7

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 17. Document ID: US 6297018 B1

L23: Entry 17 of 29

File: USPT

Oct 2, 2001

US-PAT-NO: 6297018

DOCUMENT-IDENTIFIER: US 6297018 B1

TITLE: Methods and apparatus for detecting nucleic acid polymorphisms

DATE-ISSUED: October 2, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
French; Todd E.	Cupertino	CA		
Modlin; Douglas N.	Palo Alto	CA		
Owicki; John C.	Palo Alto	CA		
Richey; James S.	Palo Alto	CA		
Leytes; Lev J.	Palo Alto	CA		
Razvi; Enal S.	San Francisco	CA		

US-CL-CURRENT: 435/6; 435/91.2, 536/23.1, 536/24.3

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. De
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☐ 18. Document ID: US 6188219 B1

L23: Entry 18 of 29

File: USPT

Feb 13, 2001

US-PAT-NO: 6188219

DOCUMENT-IDENTIFIER: US 6188219 B1

**** See image for Certificate of Correction ****TITLE: Magnetic resonance imaging method and apparatus and method of calibrating the same

DATE-ISSUED: February 13, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Reeder; Scott B.	Baltimore	MD		
Atalar; Ergin	Columbia	MD		
Faranesh; Anthony Z.	Baltimore	MD		
McVeigh; Elliot R.	Timonium	MD		

US-CL-CURRENT: 324/307; 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. De
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☐ 19. Document ID: US 6157677 A

L23: Entry 19 of 29

File: USPT

Dec 5, 2000

US-PAT-NO: 6157677

DOCUMENT-IDENTIFIER: US 6157677 A

TITLE: Method and apparatus for coordination of motion determination over multiple frames

DATE-ISSUED: December 5, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Martens; Harald Aagaard	Munich			DE
Reberg; Jan Otto	Unterföhring			DE

US-CL-CURRENT: 375/240.16; 348/416.1, 348/699

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw. D.
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☐ 20. Document ID: US 6150814 A

L23: Entry 20 of 29

File: USPT

Nov 21, 2000

US-PAT-NO: 6150814

DOCUMENT-IDENTIFIER: US 6150814 A

TITLE: Methods of achieving phase contrast in magnetic resonance imaging and a related apparatus

DATE-ISSUED: November 21, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Redpath; Thomas William Tennant	Aberdeen			GB
McKiddie; Fergus Iain	Laurencekirk			GB
Dymond; Rosemary Carmen	Cardiff			GB

US-CL-CURRENT: 324/307; 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw. D.
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☐ 21. Document ID: US 5983251 A

L23: Entry 21 of 29

File: USPT

Nov 9, 1999

US-PAT-NO: 5983251

DOCUMENT-IDENTIFIER: US 5983251 A

TITLE: Method and apparatus for data analysis

DATE-ISSUED: November 9, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Martens; Harald Aagaard	Oslo			NO
Reberg; Jan Otto	Langhus			NO

US-CL-CURRENT: 708/203

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Drawings
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☐ 22. Document ID: US 5960097 A

L23: Entry 22 of 29

File: USPT

Sep 28, 1999

US-PAT-NO: 5960097

DOCUMENT-IDENTIFIER: US 5960097 A

TITLE: Background adaptive target detection and tracking with multiple observation and processing stages

DATE-ISSUED: September 28, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Pfeiffer; Carl G.	Hermosa Beach	CA		
Tsai; Cheng-Chih	Cerritos	CA		
Gumas; D. Spyro	Middletown	MD		
Calingaert; Christopher	Culver City	CA		
Nguyen; Danny D.	El Segundo	CA		

US-CL-CURRENT: 382/103; 342/357.07, 382/107, 382/260

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Drawings
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☐ 23. Document ID: US 5622952 A

L23: Entry 23 of 29

File: USPT

Apr 22, 1997

US-PAT-NO: 5622952

DOCUMENT-IDENTIFIER: US 5622952 A

TITLE: Glycine receptor antagonists and the use thereof

DATE-ISSUED: April 22, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Weber; Eckard	Laguna Beach	CA		
Keana; John F. W.	Eugene	OR		

US-CL-CURRENT: 514/249; 544/354

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw. De
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☐ 24. Document ID: US 5620979 A

L23: Entry 24 of 29

File: USPT

Apr 15, 1997

US-PAT-NO: 5620979

DOCUMENT-IDENTIFIER: US 5620979 A

TITLE: Glycine receptor antagonists and the use thereof

DATE-ISSUED: April 15, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Weber; Eckard	Laguna Beach	CA		
Keana; John F. W.	Eugene	OR		

US-CL-CURRENT: 514/249

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw. De
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☐ 25. Document ID: US 5572125 A

L23: Entry 25 of 29

File: USPT

Nov 5, 1996

US-PAT-NO: 5572125

DOCUMENT-IDENTIFIER: US 5572125 A

TITLE: Correction and automated analysis of spectral and imaging data

DATE-ISSUED: November 5, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dunkel; Reinhard	Salt Lake City	UT	84102	

US-CL-CURRENT: 324/307; 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw. De
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☐ 26. Document ID: US 5514680 A

L23: Entry 26 of 29

File: USPT

May 7, 1996

US-PAT-NO: 5514680

DOCUMENT-IDENTIFIER: US 5514680 A

TITLE: Glycine receptor antagonists and the use thereof

DATE-ISSUED: May 7, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Weber; Eckard	Laguna Beach	CA		
Keana; John F. W.	Eugene	OR		

US-CL-CURRENT: 514/249

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw. De
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☐ 27. Document ID: US 5489782 A

L23: Entry 27 of 29

File: USPT

Feb 6, 1996

US-PAT-NO: 5489782

DOCUMENT-IDENTIFIER: US 5489782 A

**** See image for Certificate of Correction ****

TITLE: Method and apparatus for quantum-limited data acquisition

DATE-ISSUED: February 6, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wernikoff; Robert E.	Newton	MA		

US-CL-CURRENT: 250/369; 250/363.02, 250/370.1, 250/371

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw. De
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☐ 28. Document ID: US 5233991 A

L23: Entry 28 of 29

File: USPT

Aug 10, 1993

US-PAT-NO: 5233991

DOCUMENT-IDENTIFIER: US 5233991 A

**** See image for Certificate of Correction ****

TITLE: Method and apparatus for estimating oxygen saturation of blood using
magnetic resonance

DATE-ISSUED: August 10, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wright; Graham A.	Palo Alto	CA		

US-CL-CURRENT: 600/410; 600/419

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 29. Document ID: US 4740753 A

L23: Entry 29 of 29

File: USPT

Apr 26, 1988

US-PAT-NO: 4740753

DOCUMENT-IDENTIFIER: US 4740753 A

TITLE: Magnet shimming using information derived from chemical shift imaging

DATE-ISSUED: April 26, 1988

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Glover; Gary H.	Delafield	WI		
Gullberg; Grant T.	Salt Lake City	UT		

US-CL-CURRENT: 324/320; 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Term	Documents
FIELD	3446735
FIELDS	489922
ESTIMAT\$4	0
ESTIMAT	227
ESTIMATA	3
ESTIMATABLE	98
ESTIMATATED	4
ESTIMATBDTO	1
ESTIMATBIT	1
ESTIMATC	4
ESTIMATCD	11
(L22 AND ((ESTIMAT\$4) WITH (MAP\$4 OR PLOT\$4 OR FIELD))) .PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	29

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[Generate OACS](#)

Search Results - Record(s) 1 through 12 of 12 returned.

☐ 1. Document ID: US 20030214291 A1

Using default format because multiple data bases are involved.

L28: Entry 1 of 12

File: PGPB

Nov 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030214291

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030214291 A1

TITLE: Method, system and computer product for k-space correction of gradient non-linearities

PUBLICATION-DATE: November 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Gurr, David H.	Palo Alto	CA	US	
Brittain, Jean H.	Palo Alto	CA	US	
<u>Pauly</u> , John M.	Redwood City	CA	US	

US-CL-CURRENT: [324/307](#); [324/309](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	MMI	Drawings
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☐ 2. Document ID: US 20030011369 A1

L28: Entry 2 of 12

File: PGPB

Jan 16, 2003

PGPUB-DOCUMENT-NUMBER: 20030011369

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030011369 A1

TITLE: Moving table MRI with frequency-encoding in the z-direction

PUBLICATION-DATE: January 16, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Brittain, Jean H.	Palo Alto	CA	US	
<u>Pauly</u> , John M.	Redwood City	CA	US	

US-CL-CURRENT: [324/309](#); [324/307](#), [324/318](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 3. Document ID: US 20020143247 A1

L28: Entry 3 of 12

File: PGPB

Oct 3, 2002

PGPUB-DOCUMENT-NUMBER: 20020143247

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020143247 A1

TITLE: Method and apparatus of acquiring large FOV images without slab-boundary artifacts

PUBLICATION-DATE: October 3, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Brittain, Jean Helen	Pewaukee	WI	US	
<u>Pauly</u> , John Mark	Redwood City	CA	US	

US-CL-CURRENT: 600/410

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 4. Document ID: US 6806708 B1

L28: Entry 4 of 12

File: USPT

Oct 19, 2004

US-PAT-NO: 6806708

DOCUMENT-IDENTIFIER: US 6806708 B1

TITLE: Multi-coil reconstruction of MRI signals using linear phase multiplied data with separate demodulators for each coil

DATE-ISSUED: October 19, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lee; Jin Hyung	Menlo Park	CA		
<u>Pauly</u> ; John M.	Redwood City	CA		
Nishimura; Dwight G.	Palo Alto	CA		

US-CL-CURRENT: 324/307; 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 5. Document ID: US 6801034 B2

L28: Entry 5 of 12

File: USPT

Oct 5, 2004

US-PAT-NO: 6801034

DOCUMENT-IDENTIFIER: US 6801034 B2

TITLE: Method and apparatus of acquiring large FOV images without slab-boundary artifacts

DATE-ISSUED: October 5, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Brittain; Jean Helen	Pewaukee	WI		
Pauly; John Mark	Redwood City	CA		

US-CL-CURRENT: 324/309; 324/318, 600/415, 600/425

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. Des
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☐ 6. Document ID: US 5311132 A

L28: Entry 6 of 12

File: USPT

May 10, 1994

US-PAT-NO: 5311132

DOCUMENT-IDENTIFIER: US 5311132 A

TITLE: Method of enhancing the focus of magnetic resonance images

DATE-ISSUED: May 10, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Noll; Douglas C.	Pittsburgh	PA		
Pauly; John M.	Menlo Park	CA		
Macovski; Albert	Menlo Park	CA		

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. Des
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☐ 7. Document ID: US 5309099 A

L28: Entry 7 of 12

File: USPT

May 3, 1994

US-PAT-NO: 5309099

DOCUMENT-IDENTIFIER: US 5309099 A

TITLE: Method of determining real-time spatially localized velocity distribution using magnetic resonance measurements

DATE-ISSUED: May 3, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Irarrazabal; Pablo	Stanford	CA		
Hu; Bob S.	Menlo Park	CA		
Pauly; John	San Francisco	CA		

US-CL-CURRENT: 324/306; 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw. De
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☐ 8. Document ID: US 5257626 A

L28: Entry 8 of 12

File: USPT

Nov 2, 1993

US-PAT-NO: 5257626

DOCUMENT-IDENTIFIER: US 5257626 A

TITLE: Method of noninvasive myocardial motion analysis using bidirectional motion intergration in phase contrast MRI maps of myocardial velocity

DATE-ISSUED: November 2, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Pelc; Norbert J.	Los Altos	CA		
Noll; Douglas C.	Pittsburgh	PA		
Pauly; John M.	Menlo Park	CA		

US-CL-CURRENT: 600/410; 324/312, 600/455

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw. De
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☐ 9. Document ID: US 5233301 A

L28: Entry 9 of 12

File: USPT

Aug 3, 1993

US-PAT-NO: 5233301

DOCUMENT-IDENTIFIER: US 5233301 A

TITLE: High resolution/reduced slice width magnetic resonance imaging and spectroscopy by signal combination and use of minimum phase excitation pulses

DATE-ISSUED: August 3, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Meyer; Craig H.	Menlo Park	CA		
Pauly; John M.	Menlo Park	CA		

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 10. Document ID: US 5212448 A

L28: Entry 10 of 12

File: USPT

May 18, 1993

US-PAT-NO: 5212448

DOCUMENT-IDENTIFIER: US 5212448 A

TITLE: NMR pulse sequence with burst RF excitation pulses having separately controlled phase

DATE-ISSUED: May 18, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Le Roux; Patrick L.	Brookfield	WI		
<u>Pauly</u> ; John M.	Menlo Park	CA		

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 11. Document ID: US 5150053 A

L28: Entry 11 of 12

File: USPT

Sep 22, 1992

US-PAT-NO: 5150053

DOCUMENT-IDENTIFIER: US 5150053 A

TITLE: Magnetic resonance imaging of short T.sub.2 species with improved contrast

DATE-ISSUED: September 22, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Pauly</u> ; John M.	Menlo Park	CA		
Conolly; Steven M.	Menlo Park	CA		
Nishimura; Dwight G.	Palo Alto	CA		

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 12. Document ID: US 5025216 A

L28: Entry 12 of 12

File: USPT

Jun 18, 1991

US-PAT-NO: 5025216

DOCUMENT-IDENTIFIER: US 5025216 A

TITLE: Magnetic resonance imaging of short T.sub.2 species

DATE-ISSUED: June 18, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Pauly; John M.	Menlo Park	CA		
Nishimura; Dwight G.	Palo Alto	CA		

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. De
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Term	Documents
KSPACE	45
KSPACES	2
K-SPACE	1769
K-SPACES	24
"K SPACE"	0
KY	46272
KIES	952
KYS	252
KZ	502315
KZES	4
RAW	532834
(L27 AND (KSPACE AND K-SPACE AND "K SPACE" OR "KY" OR "KY" OR "KZ" OR RAW)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	12

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☐ 1. Document ID: US 20040258326 A1

Using default format because multiple data bases are involved.

L31: Entry 1 of 32

File: PGPB

Dec 23, 2004

PGPUB-DOCUMENT-NUMBER: 20040258326
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040258326 A1

TITLE: Partial k-space reconstruction for radial k-space trajectories in magnetic resonance imaging

PUBLICATION-DATE: December 23, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Lee, Jin Hyung	Menlo Park	CA	US	
<u>Pauly</u> , John M.	Redwood City	CA	US	
Nishimura, Dwight G.	Palo Alto	CA	US	

US-CL-CURRENT: 382/280

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMC	Draw De
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☐ 2. Document ID: US 20040254446 A1

L31: Entry 2 of 32

File: PGPB

Dec 16, 2004

PGPUB-DOCUMENT-NUMBER: 20040254446
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040254446 A1

TITLE: Functional magnetic resonance imaging using steady state free precession

PUBLICATION-DATE: December 16, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Miller, Karla L.	San Francisco	CA	US	
<u>Pauly</u> , John M.	Redwood City	CA	US	

US-CL-CURRENT: 600/410

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. Des
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☐ 3. Document ID: US 20030215154 A1

L31: Entry 3 of 32

File: PGPB

Nov 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030215154

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030215154 A1

TITLE: Method and apparatus for reconstruction of non-uniformly sampled data

PUBLICATION-DATE: November 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
<u>Pauly</u> , John Mark	Redwood City	CA	US	
Santos, Juan Manuel	Stanford	CA	US	
Wright, Graham Arnold	Toronto		CA	

US-CL-CURRENT: 382/254; 382/131, 382/279, 382/280

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. Des
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☐ 4. Document ID: US 20030214291 A1

L31: Entry 4 of 32

File: PGPB

Nov 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030214291

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030214291 A1

TITLE: Method, system and computer product for k-space correction of gradient non-linearities

PUBLICATION-DATE: November 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Gurr, David H.	Palo Alto	CA	US	
Brittain, Jean H.	Palo Alto	CA	US	
<u>Pauly</u> , John M.	Redwood City	CA	US	

US-CL-CURRENT: 324/307; 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. Des
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☐ 5. Document ID: US 20030011369 A1

L31: Entry 5 of 32

File: PGPB

Jan 16, 2003

PGPUB-DOCUMENT-NUMBER: 20030011369
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030011369 A1

TITLE: Moving table MRI with frequency-encoding in the z-direction

PUBLICATION-DATE: January 16, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Brittain, Jean H.	Palo Alto	CA	US	
<u>Pauly</u> , John M.	Redwood City	CA	US	

US-CL-CURRENT: 324/309; 324/307, 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. D.
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☐ 6. Document ID: US 20020143247 A1

L31: Entry 6 of 32

File: PGPB

Oct 3, 2002

PGPUB-DOCUMENT-NUMBER: 20020143247
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020143247 A1

TITLE: Method and apparatus of acquiring large FOV images without slab-boundary artifacts

PUBLICATION-DATE: October 3, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Brittain, Jean Helen	Pewaukee	WI	US	
<u>Pauly</u> , John Mark	Redwood City	CA	US	

US-CL-CURRENT: 600/410

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. D.
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☐ 7. Document ID: US 20010025141 A1

L31: Entry 7 of 32

File: PGPB

Sep 27, 2001

PGPUB-DOCUMENT-NUMBER: 20010025141
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20010025141 A1

TITLE: Methods for view angle tilt imaging of interventional devices providing adjustment of device contrast

PUBLICATION-DATE: September 27, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Butts, Rosemary Kim	Redwood City	CA	US	
<u>Pauly</u> , John M.	Redwood City	CA	US	

US-CL-CURRENT: 600/410; 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. Des
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☐ 8. Document ID: US 6806708 B1

L31: Entry 8 of 32

File: USPT

Oct 19, 2004

US-PAT-NO: 6806708

DOCUMENT-IDENTIFIER: US 6806708 B1

TITLE: Multi-coil reconstruction of MRI signals using linear phase multiplied data with separate demodulators for each coil

DATE-ISSUED: October 19, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lee; Jin Hyung	Menlo Park	CA		
<u>Pauly</u> ; John M.	Redwood City	CA		
Nishimura; Dwight G.	Palo Alto	CA		

US-CL-CURRENT: 324/307; 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. Des
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☐ 9. Document ID: US 6801034 B2

L31: Entry 9 of 32

File: USPT

Oct 5, 2004

US-PAT-NO: 6801034

DOCUMENT-IDENTIFIER: US 6801034 B2

TITLE: Method and apparatus of acquiring large FOV images without slab-boundary artifacts

DATE-ISSUED: October 5, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
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Brittain; Jean Helen Pewaukee WI
Pauly; John Mark Redwood City CA

US-CL-CURRENT: 324/309; 324/318, 600/415, 600/425

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw. De
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☐ 10. Document ID: US 6678544 B2

L31: Entry 10 of 32

File: USPT

Jan 13, 2004

US-PAT-NO: 6678544

DOCUMENT-IDENTIFIER: US 6678544 B2

TITLE: Methods for view angle tilt imaging of interventional devices providing adjustment of device contrast

DATE-ISSUED: January 13, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Butts; Rosemary Kim	Redwood City	CA		
Pauly; John M	Redwood City	CA		

US-CL-CURRENT: 600/410; 324/307, 324/309, 600/411

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw. De
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☐ 11. Document ID: US 6452387 B1

L31: Entry 11 of 32

File: USPT

Sep 17, 2002

US-PAT-NO: 6452387

DOCUMENT-IDENTIFIER: US 6452387 B1

**** See image for Certificate of Correction ****

TITLE: Catalyzing the transient response in steady-state MRI sequences

DATE-ISSUED: September 17, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hargreaves; Brain A.	Stanford	CA		
Vasanawala; Shreyas	Stanford	CA		
Pauly; John M.	Redwood City	CA		
Nishimura; Dwight G.	Palo Alto	CA		

US-CL-CURRENT: 324/300; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 12. Document ID: US 6404194 B1

L31: Entry 12 of 32

File: USPT

Jun 11, 2002

US-PAT-NO: 6404194

DOCUMENT-IDENTIFIER: US 6404194 B1

TITLE: Three dimensional magnetic resonance imaging using spiral trajectories in k-space

DATE-ISSUED: June 11, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Irarrazabal; Pablo	Stanford	CA		
<u>Pauly</u> ; John M.	San Francisco	CA		

US-CL-CURRENT: 324/307; 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 13. Document ID: US 6307368 B1

L31: Entry 13 of 32

File: USPT

Oct 23, 2001

US-PAT-NO: 6307368

DOCUMENT-IDENTIFIER: US 6307368 B1

TITLE: Linear combination steady-state free precession MRI

DATE-ISSUED: October 23, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Vasanawala; Shreyas S.	Mountain View	CA		
<u>Pauly</u> ; John M.	Redwood City	CA		
Nishimura; Dwight G.	Palo Alto	CA		

US-CL-CURRENT: 324/309; 324/300, 324/307, 324/311

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 14. Document ID: US 6256526 B1

L31: Entry 14 of 32

File: USPT

Jul 3, 2001

US-PAT-NO: 6256526

DOCUMENT-IDENTIFIER: US 6256526 B1

TITLE: Methods for view angle tilt imaging of interventional devices providing adjustment of device contrast

DATE-ISSUED: July 3, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Butts; Rosemary K.	San Francisco	CA		
Pauly; John M.	San Francisco	CA		

US-CL-CURRENT: 600/410; 324/307, 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw Dg
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☐ 15. Document ID: US 6020739 A

L31: Entry 15 of 32

File: USPT

Feb 1, 2000

US-PAT-NO: 6020739

DOCUMENT-IDENTIFIER: US 6020739 A

TITLE: Rapid method of optimal gradient waveform design for MRI

DATE-ISSUED: February 1, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Meyer; Craig H.	Mountain View	CA		
Pauly; John M.	San Francisco	CA		

US-CL-CURRENT: 324/309; 324/300, 324/307, 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw Dg
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☐ 16. Document ID: US 5957843 A

L31: Entry 16 of 32

File: USPT

Sep 28, 1999

US-PAT-NO: 5957843

DOCUMENT-IDENTIFIER: US 5957843 A

TITLE: Partial flyback echo-planar imaging

DATE-ISSUED: September 28, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Luk Pat; Gerard T.	Stanford	CA		

Meyer; Craig H. Mountain View CA
Pauly; John M. San Francisco CA
Nishimura; Dwight G. Palo Alto CA

US-CL-CURRENT: 600/410; 324/306, 324/309, 600/419

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Drawings
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☐ 17. Document ID: US 5905377 A

L31: Entry 17 of 32

File: USPT

May 18, 1999

US-PAT-NO: 5905377

DOCUMENT-IDENTIFIER: US 5905377 A

TITLE: Method and apparatus for correcting gradient system and static magnetic field in magnetic resonance imaging

DATE-ISSUED: May 18, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kerr; Adam B.	Palo Alto	CA		
<u>Pauly</u> ; John M.	San Francisco	CA		

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Drawings
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☐ 18. Document ID: US 5856744 A

L31: Entry 18 of 32

File: USPT

Jan 5, 1999

US-PAT-NO: 5856744

DOCUMENT-IDENTIFIER: US 5856744 A

TITLE: Method and apparatus for B.sub.0 eddy current compensation by B.sub.1 phase modulation

DATE-ISSUED: January 5, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Block; Walter F.	Palo Alto	CA		
Kerr; Adam B.	Palo Alto	CA		
<u>Pauly</u> ; John M.	San Francisco	CA		

US-CL-CURRENT: 324/309; 324/314

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw. De
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☐ 19. Document ID: US 5588431 A

L31: Entry 19 of 32

File: USPT

Dec 31, 1996

US-PAT-NO: 5588431

DOCUMENT-IDENTIFIER: US 5588431 A

TITLE: Inversion recovery MRI

DATE-ISSUED: December 31, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mani; Sanjay	Palo Alto	CA		
Nishimura; Dwight G.	Palo Alto	CA		
Conolly; Steven M.	Menlo Park	CA		
<u>Pauly</u> ; John M.	San Francisco	CA		

US-CL-CURRENT: 600/410; 324/307, 324/309, 324/312, 600/413, 600/419

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw. De
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☐ 20. Document ID: US 5402067 A

L31: Entry 20 of 32

File: USPT

Mar 28, 1995

US-PAT-NO: 5402067

DOCUMENT-IDENTIFIER: US 5402067 A

TITLE: Apparatus and method for rare echo imaging using k-space spiral coverage

DATE-ISSUED: March 28, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Pauly</u> ; John M.	San Francisco	CA		
Spielman; Daniel M.	San Jose	CA		
Meyer; Craig H.	Palo Alto	CA		
Macovski; Albert	Menlo Park	CA		
Pelc; Norbert J.	Los Altos	CA		

US-CL-CURRENT: 324/307; 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw. De
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☐ 21. Document ID: US 5311132 A

L31: Entry 21 of 32

File: USPT

May 10, 1994

US-PAT-NO: 5311132

DOCUMENT-IDENTIFIER: US 5311132 A

TITLE: Method of enhancing the focus of magnetic resonance images

DATE-ISSUED: May 10, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Noll; Douglas C.	Pittsburgh	PA		
<u>Pauly</u> ; John M.	Menlo Park	CA		
Macovski; Albert	Menlo Park	CA		

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 22. Document ID: US 5283526 A

L31: Entry 22 of 32

File: USPT

Feb 1, 1994

US-PAT-NO: 5283526

DOCUMENT-IDENTIFIER: US 5283526 A

TITLE: Method for performing single and multiple slice magnetic resonance spectroscopic imaging

DATE-ISSUED: February 1, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Spielman; Daniel M.	San Jose	CA		
<u>Pauly</u> ; John M.	Menlo Park	CA		

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 23. Document ID: US 5280245 A

L31: Entry 23 of 32

File: USPT

Jan 18, 1994

US-PAT-NO: 5280245

DOCUMENT-IDENTIFIER: US 5280245 A

TITLE: Magnetic resonance apparatus employing delayed self-refocusing RF excitation

DATE-ISSUED: January 18, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Pauly</u> ; John M.	Menlo Park	CA		

US-CL-CURRENT: 324/307; 324/314

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw	De
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☐ 24. Document ID: US 5270653 A

L31: Entry 24 of 32

File: USPT

Dec 14, 1993

US-PAT-NO: 5270653

DOCUMENT-IDENTIFIER: US 5270653 A

TITLE: Selective three dimensional excitation for magnetic resonance applications

DATE-ISSUED: December 14, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Pauly</u> ; John M.	Menlo Park	CA		

US-CL-CURRENT: 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw	De
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☐ 25. Document ID: US 5257626 A

L31: Entry 25 of 32

File: USPT

Nov 2, 1993

US-PAT-NO: 5257626

DOCUMENT-IDENTIFIER: US 5257626 A

TITLE: Method of noninvasive myocardial motion analysis using bidirectional motion intergration in phase contrast MRI maps of myocardial velocity

DATE-ISSUED: November 2, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Pelc; Norbert J.	Los Altos	CA		
Noll; Douglas C.	Pittsburgh	PA		
<u>Pauly</u> ; John M.	Menlo Park	CA		

US-CL-CURRENT: 600/410; 324/312, 600/455

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw	De
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☐ 26. Document ID: US 5233301 A

L31: Entry 26 of 32

File: USPT

Aug 3, 1993

US-PAT-NO: 5233301

DOCUMENT-IDENTIFIER: US 5233301 A

TITLE: High resolution/reduced slice width magnetic resonance imaging and spectroscopy by signal combination and use of minimum phase excitation pulses

DATE-ISSUED: August 3, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Meyer; Craig H.	Menlo Park	CA		
<u>Pauly</u> ; John M.	Menlo Park	CA		

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw D
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☐ 27. Document ID: US 5189371 A

L31: Entry 27 of 32

File: USPT

Feb 23, 1993

US-PAT-NO: 5189371

DOCUMENT-IDENTIFIER: US 5189371 A

TITLE: Method and means for magnetic resonance imaging and spectroscopy using two-dimensional selective adiabatic PI pulses

DATE-ISSUED: February 23, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Conolly; Steven M.	Menlo Park	CA		
<u>Pauly</u> ; John M.	Menlo Park	CA		

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw D
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☐ 28. Document ID: US 5150053 A

L31: Entry 28 of 32

File: USPT

Sep 22, 1992

US-PAT-NO: 5150053

DOCUMENT-IDENTIFIER: US 5150053 A

TITLE: Magnetic resonance imaging of short T.sub.2 species with improved contrast

DATE-ISSUED: September 22, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Pauly; John M.	Menlo Park	CA		
Conolly; Steven M.	Menlo Park	CA		
Nishimura; Dwight G.	Palo Alto	CA		

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw. Doc
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☐ 29. Document ID: US 5105152 A

L31: Entry 29 of 32

File: USPT

Apr 14, 1992

US-PAT-NO: 5105152

DOCUMENT-IDENTIFIER: US 5105152 A

TITLE: Magnetic resonance imaging and spectroscopy using a linear class of large tip-angle selective excitation pulses

DATE-ISSUED: April 14, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Pauly; John M.	Menlo Park	CA		

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw. Doc
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☐ 30. Document ID: US 5025216 A

L31: Entry 30 of 32

File: USPT

Jun 18, 1991

US-PAT-NO: 5025216

DOCUMENT-IDENTIFIER: US 5025216 A

TITLE: Magnetic resonance imaging of short T.sub.2 species

DATE-ISSUED: June 18, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Pauly; John M.	Menlo Park	CA		
Nishimura; Dwight G.	Palo Alto	CA		

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draws
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☐ 31. Document ID: US 4999580 A

L31: Entry 31 of 32

File: USPT

Mar 12, 1991

US-PAT-NO: 4999580

DOCUMENT-IDENTIFIER: US 4999580 A

TITLE: magnetic resonance imaging and spectroscopy using a single excitation pulse
for simultaneous spatial and spectral selectivity

DATE-ISSUED: March 12, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Meyer; Craig H.	Menlo Park	CA		
<u>Pauly</u> ; John M.	Menlo Park	CA		

US-CL-CURRENT: 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draws
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☐ 32. Document ID: US 4985677 A

L31: Entry 32 of 32

File: USPT

Jan 15, 1991

US-PAT-NO: 4985677

DOCUMENT-IDENTIFIER: US 4985677 A

TITLE: Magnetic resonance imaging and spectroscopy using an excitation pulse for
multiple-dimensional selectivity

DATE-ISSUED: January 15, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Pauly</u> ; John M.	Menlo Park	CA		

US-CL-CURRENT: 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draws
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Term	Documents
NON-LINEAR	114853

NON-LINEARS	3
NONLINEAR	92746
NONLINEARS	3
SPIRAL\$2	0
SPIRAL	331245
SPIRALA	7
SPIRALAG	5
SPIRALAN	1
SPIRALAR	4
SPIRALAS	8
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☐ 1. Document ID: US 6215306 B1

Using default format because multiple data bases are involved.

L34: Entry 1 of 1

File: USPT

Apr 10, 2001

US-PAT-NO: 6215306

DOCUMENT-IDENTIFIER: US 6215306 B1

TITLE: Magnetic resonance imaging using off-centered spiral trajectories

DATE-ISSUED: April 10, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tsai; Chi-Ming	Stanford	CA		
Man; Lai-Chee	Stanford	CA		

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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(L33 AND L1).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	1

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☐ 1. Document ID: US 20040260173 A1

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L48: Entry 1 of 24

File: PGPB

Dec 23, 2004

PGPUB-DOCUMENT-NUMBER: 20040260173

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040260173 A1

TITLE: Optimized high-speed magnetic resonance imaging method and system using hyperpolarized noble gases

PUBLICATION-DATE: December 23, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Salerno, Michael	Palo Alto	CA	US	
Mugler III, John P.	Charlottesville	VA	US	
Brookeman, James R.	Charlottesville	VA	US	

US-CL-CURRENT: 600/420

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIGS	Drawings
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☐ 2. Document ID: US 20040227512 A1

L48: Entry 2 of 24

File: PGPB

Nov 18, 2004

PGPUB-DOCUMENT-NUMBER: 20040227512

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040227512 A1

TITLE: Systems and methods for estimating properties of a sample

PUBLICATION-DATE: November 18, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Twieg, Donald Baker	Birmingham	AL	US	

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. Des
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☐ 3. Document ID: US 20040090230 A1

L48: Entry 3 of 24

File: PGPB

May 13, 2004

PGPUB-DOCUMENT-NUMBER: 20040090230

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040090230 A1

TITLE: Method and apparatus for subterranean formation flow imaging

PUBLICATION-DATE: May 13, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Appel, Matthias	Norwich	TX	GB	
Freeman, John Justin	Houston	TX	US	
Winkler, Mario	Houston	DE	US	
Blumich, Bernhard Peter Jakob	Roetgen		US	

US-CL-CURRENT: 324/307; 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. Des
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☐ 4. Document ID: US 20040044280 A1

L48: Entry 4 of 24

File: PGPB

Mar 4, 2004

PGPUB-DOCUMENT-NUMBER: 20040044280

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040044280 A1

TITLE: Methods & apparatus for magnetic resonance imaging

PUBLICATION-DATE: March 4, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Paley, Martyn	Keighly		GB	
Lee, Kuan	Sheffield		GB	

US-CL-CURRENT: 600/410

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. Des
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☐ 5. Document ID: US 20040024543 A1

L48: Entry 5 of 24

File: PGPB

Feb 5, 2004

PGPUB-DOCUMENT-NUMBER: 20040024543
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040024543 A1

TITLE: Methods and systems for analyzing complex biological systems

PUBLICATION-DATE: February 5, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Zhang, Weiwen	Richland	WA	US	
Shuster, Jeffrey	Chapel Hill	NC	US	
Davis, Keith	Durham	NC	US	
Boyes, Douglas	Chapel Hill	NC	US	
Woessner, Jeffrey	Hillsborough	NC	US	
Hurban, Patrick	Raleigh	NC	US	
Hamilton, Carol	Apex	NC	US	
Coffin, Marie	Cary	NC	US	
Allen, Keith	Cary	NC	US	
Lawrence, Matthew	Rolesville	NC	US	
Hoffman, Neil	Chapel Hill	NC	US	
Liddell, Craig M.	McLean	VA	US	
Beecher, Christopher	Chapel Hill	NC	US	

US-CL-CURRENT: 702/32

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIGS	Drawings
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☐ 6. Document ID: US 20040024293 A1

L48: Entry 6 of 24

File: PGPB

Feb 5, 2004

PGPUB-DOCUMENT-NUMBER: 20040024293
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040024293 A1

TITLE: Methods and systems for analyzing complex biological systems

PUBLICATION-DATE: February 5, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Lawrence, Matthew	Rolesville	NC	US	
Zhang, Weiwen	Richland	WA	US	
Shuster, Jeffrey	Chapel Hill	NC	US	
Davis, Keith	Durham	NC	US	
Boyes, Douglas	Chapel Hill	NC	US	
Woessner, Jeffrey	Hillsborough	NC	US	
Hurban, Patrick	Raleigh	NC	US	

Hamilton, Carol	Apex	NC	US
Coffin, Marie	Cary	NC	US
Allen, Keith	Cary	NC	US
Beecher, Christopher	Chapel Hill	NC	US
Hoffman, Neil	Chapel Hill	NC	US
Liddell, Craig M.	McLean	VA	US

US-CL-CURRENT: 600/300

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Data
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☐ 7. Document ID: US 20040023295 A1

L48: Entry 7 of 24

File: PGPB

Feb 5, 2004

PGPUB-DOCUMENT-NUMBER: 20040023295

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040023295 A1

TITLE: Methods and systems for analyzing complex biological systems

PUBLICATION-DATE: February 5, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hamilton, Carol	Apex	NC	US	
Coffin, Marie	Cary	NC	US	
Allen, Keith	Cary	NC	US	
Lawrence, Matthew	Rolesville	NC	US	
Zhang, Weiwen	Apex	NC	US	
Shuster, Jeffrey	Chapel Hill	NC	US	
Davis, Keith	Durham	NC	US	
Boyes, Douglas	Chapel Hill	NC	US	
Woessner, Jeffrey	Hillsborough	NC	US	
Hurban, Patrick	Raleigh	NC	US	
Hoffman, Neil	Chapel Hill	NC	US	
Liddell, Craig M.	McLean	VA	US	
Beecher, Christopher	Chapel Hill	NC	US	

US-CL-CURRENT: 435/7.1; 702/19

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Data
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☐ 8. Document ID: US 20040019435 A1

L48: Entry 8 of 24

File: PGPB

Jan 29, 2004

PGPUB-DOCUMENT-NUMBER: 20040019435

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040019435 A1

TITLE: Methods and systems for analyzing complex biological systems

PUBLICATION-DATE: January 29, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Winfield, Stephanie	Raleigh	NC	US	
Glassbrook, Norman	Chapel Hill	NC	US	
Ranasinghe, Yasmin	Southington	CT	US	
Broadwell, David	Garner	NC	US	
Popa-Burke, Ioana	Durham	NC	US	
Nye, Gordon James	Morrisville	NC	US	
Beecher, Christopher	Chapel Hill	NC	US	

US-CL-CURRENT: 702/22

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawings
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☐ 9. Document ID: US 20040019430 A1

L48: Entry 9 of 24

File: PGPB

Jan 29, 2004

PGPUB-DOCUMENT-NUMBER: 20040019430

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040019430 A1

TITLE: Methods and systems for analyzing complex biological systems

PUBLICATION-DATE: January 29, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hurban, Patrick	Raleigh	NC	US	
Hamilton, Carol	Apex	NC	US	
Coffin, Marie	Cary	NC	US	
Allen, Keith	Cary	NC	US	
Lawrence, Matthew	Rolesville	NC	US	
Zhang, Weiwen	Richland	WA	US	
Shuster, Jeffrey	Chapel Hill	NC	US	
Davis, Keith	Durham	NC	US	
Boyes, Douglas	Chapel Hill	NC	US	
Woessner, Jeffrey	Hillsborough	NC	US	
Beecher, Christopher	Chapel Hill	NC	US	
Hoffman, Neil	Chapel Hill	NC	US	
Liddell, Craig M.	McLean	VA	US	

US-CL-CURRENT: 702/19

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. D
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☐ 10. Document ID: US 20040019429 A1

L48: Entry 10 of 24

File: PGPB

Jan 29, 2004

PGPUB-DOCUMENT-NUMBER: 20040019429

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040019429 A1

TITLE: Methods and systems for analyzing complex biological systems

PUBLICATION-DATE: January 29, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Coffin, Marie	Cary	NC	US	
Allen, Keith	Cary	NC	US	
Lawrence, Matthew	Rolesville	NC	US	
Zhang, Weiwen	Richland	WA	US	
Shuster, Jeffrey	Chapel Hill	NC	US	
Davis, Keith	Durham	NC	US	
Boyes, Douglas	Chapel Hill	NC	US	
Woessner, Jeffrey	Hillsborough	NC	US	
Hurban, Patrick M.	Raleigh	NC	US	
Hamilton, Carol	Apex	NC	US	
Hoffman, Neil	Chapel Hill	NC	US	
Liddell, Craig M.	McLean	VA	US	
Beecher, Christopher	Chapel Hill	NC	US	

US-CL-CURRENT: 702/19

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. D
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☐ 11. Document ID: US 20040018501 A1

L48: Entry 11 of 24

File: PGPB

Jan 29, 2004

PGPUB-DOCUMENT-NUMBER: 20040018501

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040018501 A1

TITLE: Methods and systems for analyzing complex biological systems

PUBLICATION-DATE: January 29, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Allen, Keith	Cary	NC	US	

Lawrence, Matthew	Rolesville	NC	US
Zhang, Weiwen	Richland	WA	US
Shuster, Jeffrey	Chapel Hill	NC	US
Davis, Keith	Durham	NC	US
Boyes, Douglas	Chapel Hill	NC	US
Woessner, Jeffrey	Hillsborough	NC	US
Hurban, Patrick	Raleigh	NC	US
Hamilton, Carol	Apex	NC	US
Coffin, Marie	Cary	NC	US
Liddell, Craig M.	McLean	VA	US
Beecher, Christopher	Chapel Hill	NC	US
Hoffman, Neil	Chapel Hill	NC	US

US-CL-CURRENT: 435/6; 435/7.1, 702/19, 702/20, 702/22

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Drawings
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☐ 12. Document ID: US 20040018500 A1

L48: Entry 12 of 24

File: PGPB

Jan 29, 2004

PGPUB-DOCUMENT-NUMBER: 20040018500

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040018500 A1

TITLE: Methods and systems for analyzing complex biological systems

PUBLICATION-DATE: January 29, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Glassbrook, Norman	Chapel Hill	NC	US	
Winfield, Stephanie	Raleigh	NC	US	
Beecher, Christopher	Chapel Hill	NC	US	
Ranasinghe, Yasmin	Southington	CT	US	
Broadwell, David	Garner	NC	US	
Popa-Burke, Ioana	Durham	NC	US	
Nye, Gordon James	Morrisville	NC	US	

US-CL-CURRENT: 435/6; 435/7.1, 702/19, 702/22

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Drawings
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☐ 13. Document ID: US 20040002842 A1

L48: Entry 13 of 24

File: PGPB

Jan 1, 2004

PGPUB-DOCUMENT-NUMBER: 20040002842

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040002842 A1

TITLE: Methods and systems for analyzing complex biological systems

PUBLICATION-DATE: January 1, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Woessner, Jeffrey	Hillsborough	NC	US	
Hurban, Patrick	Raleigh	NC	US	
Hamilton, Carol	Apex	NC	US	
Coffin, Marie	Cary	NC	US	
Allen, Keith	Cary	NC	US	
Lawrence, Matthew	Rolesville	NC	US	
Zhang, Weiwen	Richland	WA	US	
Shuster, Jeffrey	Chapel Hill	NC	US	
Davis, Keith	Durham	NC	US	
Boyes, Douglas	Chapel Hill	NC	US	
Liddell, Craig M.	McLean	VA	US	
Beecher, Christopher	Chapel Hill	NC	US	
Hoffman, Neil	Chapel Hill	NC	US	

US-CL-CURRENT: 703/11; 702/19

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	MMIC	Draw Dg
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☐ 14. Document ID: US 20030229451 A1

L48: Entry 14 of 24

File: PGPB

Dec 11, 2003

PGPUB-DOCUMENT-NUMBER: 20030229451

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030229451 A1

TITLE: Methods and systems for analyzing complex biological systems

PUBLICATION-DATE: December 11, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hamilton, Carol	Apex	NC	US	
Woessner, Jeffrey	Hillsborough	NC	US	
Hurban, Patrick	Raleigh	NC	US	
Coffin, Marie	Cary	NC	US	
Allen, Keith	Cary	NC	US	
Lawrence, Matthew	Rolesville	NC	US	
Zhang, Weiwen	Richland	WA	US	
Shuster, Jeffrey	Chapel Hill	NC	US	
Davis, Keith	Durham	NC	US	

Boyes, Douglas	Chapel Hill	NC	US
Hoffman, Neil	Chapel Hill	NC	US
Liddell, Craig M.	McLean	VA	US
Beecher, Christopher	Chapel Hill	NC	US

US-CL-CURRENT: 702/19

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. Des
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☐ 15. Document ID: US 20020120429 A1

L48: Entry 15 of 24

File: PGPB

Aug 29, 2002

PGPUB-DOCUMENT-NUMBER: 20020120429
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020120429 A1

TITLE: Methods for modeling multi-dimensional domains using information theory to resolve gaps in data and in theories

PUBLICATION-DATE: August 29, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Ortoleva, Peter J.	Bloomington	IN	US	

US-CL-CURRENT: 703/2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. Des
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☐ 16. Document ID: US 20020095087 A1

L48: Entry 16 of 24

File: PGPB

Jul 18, 2002

PGPUB-DOCUMENT-NUMBER: 20020095087
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020095087 A1

TITLE: Systems and methods for making noninvasive physiological assessments

PUBLICATION-DATE: July 18, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Mourad, Pierre D.	Seattle	WA	US	
Kliot, Michel	Bellevue	WA	US	
Mesiwala, Ali	Seattle	WA	US	
Patterson, Rex	Kirkland	WA	US	
Jarvik, Jeffrey G.	Seattle	WA	US	

US-CL-CURRENT: 600/442; 600/449

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. De
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☐ 17. Document ID: US 6728568 B1

L48: Entry 17 of 24

File: USPT

Apr 27, 2004

US-PAT-NO: 6728568

DOCUMENT-IDENTIFIER: US 6728568 B1

TITLE: Magnetic resonance imaging method and device

DATE-ISSUED: April 27, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yatsui; Yumiko	Abiko			JP
Takahashi; Tetsuhiko	Soka			JP

US-CL-CURRENT: 600/410; 324/307, 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw. De
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☐ 18. Document ID: US 6603989 B1

L48: Entry 18 of 24

File: USPT

Aug 5, 2003

US-PAT-NO: 6603989

DOCUMENT-IDENTIFIER: US 6603989 B1

TITLE: T2 contrast in magnetic resonance imaging with gradient echoes

DATE-ISSUED: August 5, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yablonskiy; Dmitriy A.	Olivette	MO	63132	

US-CL-CURRENT: 600/410

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw. De
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☐ 19. Document ID: US 5742163 A

L48: Entry 19 of 24

File: USPT

Apr 21, 1998

US-PAT-NO: 5742163

DOCUMENT-IDENTIFIER: US 5742163 A

TITLE: Magnetic resonance scan calibration and reconstruction technique for multi-shot, multi-echo imaging

DATE-ISSUED: April 21, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Liu; Haiying	Euclid	OH		
DeMeester; Gordon D.	Wickliffe	OH		
McNally; James M.	Chagrin Falls	OH		

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw	De
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☐ 20. Document ID: US RE35656 E

L48: Entry 20 of 24

File: USPT

Nov 11, 1997

US-PAT-NO: RE35656

DOCUMENT-IDENTIFIER: US RE35656 E

TITLE: Ultra-fast multi-section MRI using gradient and spin echo (GRASE) imaging

DATE-ISSUED: November 11, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Feinberg; David A.	New York	NY		
Oshio; Koichi	Brookline	MA		

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw	De
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☐ 21. Document ID: US 5369362 A

L48: Entry 21 of 24

File: USPT

Nov 29, 1994

US-PAT-NO: 5369362

DOCUMENT-IDENTIFIER: US 5369362 A

TITLE: Method of and apparatus for NMR testing

DATE-ISSUED: November 29, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Counsell; Christopher J. R.	Oxford			GB2

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw. De
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☐ 22. Document ID: US 5352979 A

L48: Entry 22 of 24

File: USPT

Oct 4, 1994

US-PAT-NO: 5352979

DOCUMENT-IDENTIFIER: US 5352979 A

**** See image for Certificate of Correction ****TITLE: Magnetic resonance imaging with contrast enhanced phase angle reconstruction

DATE-ISSUED: October 4, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Conturo; Thomas E.	Baltimore	MD	21231	

US-CL-CURRENT: 324/307; 600/410, 600/413, 600/420

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw. De
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☐ 23. Document ID: US 5270654 A

L48: Entry 23 of 24

File: USPT

Dec 14, 1993

US-PAT-NO: 5270654

DOCUMENT-IDENTIFIER: US 5270654 A

**** See image for Certificate of Correction ****TITLE: Ultra-fast multi-section MRI using gradient and spin echo (grase) imaging

DATE-ISSUED: December 14, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Feinberg; David A.	Berkeley	CA	94708	
Oshio; Koichi	Brookline	MA	02146	

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw. De
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☐ 24. Document ID: US 4746864 A

L48: Entry 24 of 24

File: USPT

May 24, 1988

US-PAT-NO: 4746864

DOCUMENT-IDENTIFIER: US 4746864 A

TITLE: Magnetic resonance imaging system

DATE-ISSUED: May 24, 1988

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Satoh; Kozo	Yokohama			JP

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw. Des
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Term	Documents
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INHOMOGENEITIES	7989
INHOMOGENEITYS	0
INHOMOGENOUS	830
INHOMOGENOU	0
"NON UNIFORMIT\$4"	0
NONUNIFORMIT\$4	0
NONUNIFORMIT	12
NONUNIFORMITES	3
NONUNIFORMITH	1
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